```
December 26, 2001, 10:34:59; Search time 98.13 Seconds (without alignments) 1324.197 Million cell updates/sec
                                                                                                                 2540
1 MKNNILVILIISLFINQIKS......QCDFANFLSISLLLISYXLL 468
                                                                                                                                                                                                         3148936
                                                                                                                                                                                                                                                                                               GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.
                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                               3148936 seqs, 277657034 residues
                                                                                                                                                                                                                                                        Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                       OM protein - protein search, using sw model
                                                                                                                                                 BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                        Minimum DB seq length: 0 Maximum DB seq length: 2000000000
                                                                                                         US-09-497-967-7
                                                                                                       Title:
Perfect score:
Sequence:
                                                                                                                                                  Scoring table:
                                                                                                                                                                                                                                                                                                   Database :
                                                                                                                                                                                Searched:
                                                             Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description						Sequence 3, Appl1				Sequence 1, Appli Sequence 40, Appl
SUMMARIES		QI	US-09-498-612-6	US-09-498-612-5	US-07-763-3528-15	US-07-763-3528-3	PCT-US01-06960-2	US-09-515-363-2	US-09-515-363B-2	US-08-028-021-1	21 US-09-791-932-40
92		DB	18	18	m	m		19	19	4	21
		Length	468	442	414	375	3131	3131	3131	3880	544
	Query	re Match Length DB ID	100.0	36.3	33.2	29.5	9	6.6	6.6	7.6	9.5
		Score	2540	921	843.5	749	251	251	251	245.5	242.5
	Result	No.	H	8	e	4	Ŋ	9	7	æ	o,

50, 10, 10, 10, 10, 10, 10, 10, 1	Sequence 3, Appli Sequence 3, Appli Sequence 3, Appli Sequence 3, Appli Sequence 3, Appli Sequence 9, Appli
1 PCT-US97-17746-50 16 US-09-254-776-50 18 US-09-436-063-5 20 US-09-637-650-5 20 US-09-637-650-5 20 US-09-627-650-5 20 US-09-823-936-16 20 US-09-413-198-500 20 US-09-413-198-500 20 US-09-413-198-500 20 US-09-413-198-500 20 US-09-413-198-500 20 US-09-196-161D-10 20 US-09-627-650-7 20 US-09-627-650-7 20 US-09-627-650-7 20 US-09-627-650-7	18 US-09-436-063-3 18 US-09-436-063-3 20 US-09-627-6500-3 20 US-09-627-6508-3 18 US-09-627-6508-3 18 US-09-627-6508-3 18 US-09-627-6508-9 20 US-09-627-6508-9 20 US-09-627-6508-9 20 US-09-627-6508-9 20 US-09-627-6508-9 20 US-09-627-6508-9 20 US-09-627-6508-9 20 US-09-627-6508-9
2826 2826 1914 1917 1917 1917 1917 1017 1017 105 105 205 208 208 208 208 208	25544 25544 25544 25601 2601 2601 2601 3518
๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛ ๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛	
238.5 231.5 231.5 233.2 233.2 233.2 230.5 220.5 220.5 221.2 2 2 2	217 217 217 217 217 217 217 217 217
10 111 112 113 114 117 118 118 118 118 118 118 118 118 118	

ALIGNMENTS

```
RESULT 1

US-09-498-612-6

Sequence 6, Application US/09498612

Sequence 6, Application US/09498612

Sequence 6, Application US/09498612

Sequence 6, Application US/09498612

Sequence 7

APPLICANT: OLKERSON Jr., Harry W.

APPLICANT: CLARK, Theodore G.

APPLICANT: THE UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC

TITLE OF INVENTION: PROTOZOA

TITLE OF INVENTION: PROTOZOA

TITLE OF INVENTION: PROTOZOA

TITLE OF INVENTION NUMBER: 00/00-2-04

PRIOR APPLICATION NUMBER: 60/118,634

PRIOR APPLICATION NUMBER: 60/118,634

PRIOR APPLICATION NUMBER: 60/124,905

PRIOR APPLICATION NUMBER: 60/131,121

PRIOR APPLICATION NUMBER: 60/131,121

PRIOR APPLICATION NUMBER: 60/131,131

SOFTWARE: PATENT NO 65: 14

SOFTWARE: PATENT NO 6

LENGTH: 468

TYPE: PRT

TYPE: PRT

US-09-498-612-6
```

g δy g δ g δy g ò

셤 ŏ

ò

g

```
MKNNILVILIISLFINQIKSANCPVGTETNTAGQVD----DLGTPANCVNCQKNFYYNNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Clark, Theodore G.
APPLICANT: Dickerson, Harry W.
TITLE OF INVENTION: ICH IMMOBILIZATION ANTIGEN AND FISH
TITLE OF INVENTION: VACCINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               440 LPESAKKNIQC---DFANFLSISLLLISYYLL 468
                                                                                                                                                      57 AA------OGEANGNOPFAAN----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ste.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/763,352P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: FETDEY, DOIDS M.
REGISTRATION NUMBER: 33,878
REFERENCE/DOCKET NUMBER: 15-91
TELECOMMUNICATION INFORMATION:
TELEPHONE: 303/499-8089
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIF: 80303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-07-763-352A-15; Sequence 15, Application US/07763352A; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5: Greenlee and Winner 5370 Manhattan Circle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19910920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET: 5370 Mar
CITY: Boulder
STATE: Colorado
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                Db
                                                                                                                                                                                                                                                                                                                                                                                                                     δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        οy
                                                                                                                                                              g
                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                   QΥ
                                                          g
                                                                                                                                                                                                                 δy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INCOMMATION:

GENERAL INCOMMATION:

APPLICANT: GAERTIG, Jacek

APPLICANT: CLARK, Theodore G.

APPLICANT: CLARK, THOODORE G.

APPLICANT: CLARK, THOODORE G.

TITLE OF INVENTION: RECOMBINANT EXPRESSION OF HETEROLOGOUS NUCLEIC ACIDS IN

TITLE OF INVENTION: RECOMBINANT EXPRESSION OF HETEROLOGOUS NUCLEIC ACIDS IN

TITLE OF INVENTION: DECOMBINANT EXPRESSION OF HETEROLOGOUS NUCLEIC ACIDS IN

TITLE OF INVENTION: DECOMBER: US/09/49, 612

CURRENT EILING DATE: 1999-02-04

PRIOR FILING DATE: 1999-02-04

PRIOR FILING DATE: 1999-03-07

PRIOR FILING DATE: 1999-03-17

PRIOR PLICATION NUMBER: 60/131,121

PRIOR FILING DATE: 1999-04-02

PRIOR FILING DATE: 1999-04-04

PRIOR FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19;
                                                                    ó
                                                                                                                                                                                                                                                                                                                                                                                                                       RSFTECVKCRLNFYYNGNNGNTPFNPGKSQCTPCPAIKPANVAQATLGNDATITAQCNVA 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CPDGTISAAGVNNWVAQNTECTNCAPNFYNNNAPNFNPGNSTCLPCPANKDYGAEATAGG 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AATLAKQCNIACPDGTAIASGAINYVILQTECLNCAANFYFDGNNFQAGSSRCKACPANK 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VQGAVATAGGTATLIAQCALECPAGTVLTDGTTSTYKQAASECVKCAANFYTTKQTDWVA 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                NEYNENAPNENAGASTCTACPVNRVGGALTAGNAATIVAQCNVACPTGTALDDGVTTDXV 180
                                                                                                                                                                                                                                                                                                                                                PGASTCTPCPQKKDAGAQPNPPATANLVTQCNVKCPAGTAIAGGATDYAAIITECVNCRI 120
                                                                                                                    9
                                                                    Gaps
                                                                                                                 1 MKNNILVILIISLFINQIKSANCPVGTETNTAGQVDDLGTPANCVNCQKNFYYNNAAAFV
                                                                                                                                                 Indels 114;
                                                                    ;
                       Length 468;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 442;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421 GIDTCTSCNKKLTSGAEANLPESAKKNIQCDFANFLSISLLLISYYLL 468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                     100.0%; Score 2540; DB 18; 100.0%; Pred. No. 3.1e-213;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      36.3%; Score 921; DB 18;
41.8%; Pred. No. 1.3e-71;
tive 45; Mismatches 139;
                                                                          .;
0
                                                                          0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      , ORGANISM: Ichthyophthirius multifiliis US-09-498-612-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 5, Application US/09498612 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                          Ouery Match 100.
Best Local Similarity 100.
Matches 468; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            442
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Sim
Matches 214;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-498-612-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                61
```

ò g

```
380 LECPAGTVLIDGTISTYKQAASECVKCAANFYITKQIDWVAGIDICTSCNKKLISGABAN 439
                                                                                                                                                                                                                                                                                                                                                                                                                                  175
                                                                                                                                                                                                                                               273 APN---FNPG-----NSTCLPCPANKDYGAEATAGGAATLAKQCNIACPDGTAIAS 320
                                                                                                                                                                                                                                                                                                           321 GAT-NYVILQTECLNCAANFYFDGNNFQAGSSRCKACPANKVQGAVATAGGTATLIAQCA 379
                                                                                                      176
                                                                                                                      221
                                        57 AAFVPGASTCTPCPQKKDAGAQPNPPATANLVTQCNVKCPAGTAIAGGATDYAAIITECV 116
                                                                                                                                                                  177 IDYVRSFTECVKCRLNFYYNGNN--GNTP----FNPG------KSQCTPCPAIKPAN
                                                                                                                                                                                                                              222 VAQATLGNDATITAQCNVACPDGTISAAGVNNWVAQNTE---CTNCAPNFYNN-----N
117 NCRINFYNENAPNFNAGASTCTACPVNRVGGALTAGNAATIVAGCNVACPTGTALDDGVT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEX: 823189
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 414 amino acids
```

```
Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   351
                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                         쉽
                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              á
                                                                                                                            18;
                                                                                                                                                                                                           57 AAFVPGASTCTPCPQKKDAGAQPNPPATANLVTQCNVKCPAGTAIAGGATDYAAIITECV 116
                                                                                                                                                                                                                                                                     117 NCRINFYNENAPNFNAGASTCTACPVNRVGGALTAGNAATIVAQCNVACPTGTALDDGVT 176
                                                                                                                                                                                                                                                                                                                                                 72 -------NAARGICVPCQINRVGSVTNAGDLATLATQCSTQCPTGTALDDGVT 117
                                                                                                                                                                                                                                                                                                                              177 IDYVRSFTECVKCRLNFYYNGNN--GNTP----FNPG------KSQCTPCPAIKPAN 221
                                                                                                                                                                                                                                                                                                                                                                                         222 VAQATLGNDATITAQCNVACPDGTISAAGVNNWVAQNTE---CTNCAPNFYNN-----N 272
                                                                                                                                                                                                                                                                                                                                                                                                               273 APN---FNPG-----NSTCLPCPANKDYGAEATAGGAATLAKQCNIACPDGTAIAS 320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             321 GAT-NYVILQTECLNCAANFYFDGNNFQAGSSRCKACPANKVQGAVATAGGTATLIAQCA 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MKNNILVILIISLFINQIKSANCPVGTETNTAGQVD----DLGTPANCVNCQKNFYYNNA 56
                                                                                                                                                                                                                                        57 AA----- 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          380 LECPAGTVLTDGTTSTYKQAASECVKCAANFYTTKQTDWVAGIDTCTSCNKKLTSGAEA 438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
33.2%; Score 843.5; DB 3; Length 414;
Best Local Similarity 40.9%; Pred. No. 7.3e-65;
Matches 196; Conservative 41; Mismatches 131; Indels 111;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 3, Application US/07763352A
GENERAL INFORMATION:
APPLICANT: Clark, Theodore G.
APPLICANT: Dickerson, Harry W.
TITLE OF INVENTION: ICH IMMOBILIZATION ANTIGEN AND FISH
TITLE OF INVENTION: VACCINE
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSE: Greenlee and Winner
STREET: S370 Manhattan Circle, Ste. 201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER REARBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/763,352A
FILING DATE: 19910920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15-91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Ferber, Donna M.
REGISTRATION NUMBER: 33,878
REFERENCE/DOCKET NUMBER: 15-
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
    ; MOLECULE TYPE: protein US-07-763-352A-15
TYPE: AMINO ACID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE: Colorado
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZIP: 80303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-07-763-352A-3
                                                                                                                                                                                                                                      a
                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           õ
                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
```

```
TITLE OF INVENTION: Melanoma Differential Associated Gene-5 (mda-5), Promoter TITLE OF INVENTION: and Uses Thereof File Reference: 0575/60849-A-PCT CURRENT APPLICATION VUMBER: PCT/US01/06960 CURRENT FILING DATE: 2001-02-28 NUMBER OF SEQ ID NOS: 3 SOFTWARE: Patentin version 3.0
                                                                                                                                                                                                                                                                                                                     15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19;
                                                                                                                                                                                                                                                                                                                                                                                                                                        73 KDAGAQPNPPATANLVTQCNVKCPAGTAIAGGATDYAAIITECVNCRINFYNENAPNFNA 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       133 GASTCTACPVNRVGGALTAGNAATIVAQCNVACPIGTALDDGVTTDYVRSFTECVKCRLN 192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                193 FYYNGNNGNTPFNPGKSQCTPCPAIKPANVAQATLGNDATITAQCNVACPDGTISAAGVN 252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   292 YGAEATAGGAATLAKQCNIACPDGTAIASGAT-NYVILQTECLNCAANFYFDGNNFQAGS 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SRCKACPANKVQGAVATAGGTATLIAQCALECPAGTVLTDGTTSTYKQAASECVKCAANF 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        253 NWVAQNTE---CTNCAPNFYNN-----NAPN---FNPG-----NSTCLPCPANKD 291
                                                                                                                                                                                                                                                                                                                                                   17 QIKSANCPVGTETNTAGQVD----DLGTPANCVNCQKNFYYNNAAAFVPGASTCTPCPQK 72
                                                                                                                                                                                                                                                                                                                                                                                   Sequence 2, Application PC/TUS0106960
GENERAL INPORMATION:
APPLICANT: THUSTEES of Columbia University in the City of New York
APPLICANT: et al.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                Query Match 9.9%; Score 251; DB 1; Length 3131; Best Local Similarity 24.7%; Pred. No. 6.6e-12; Matches 119; Conservative 6; Mismatches 177; Indels 180;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    43 -QGEANGNOPFAAN------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               343 FASKTTGFTAGTDTCTECTKKLTSGATA 370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        411 YTTKQTDWVAGIDTCTSCNKKLTSGAEA 438
TELEPHONE: 303/499-8080
TELEFAX. 303/499-8089
TELEX: 823189
INFORMATION FOR SEQ ID NO: 3: SEQUENCE CHARACTERISTICS:
LENGTH: 375 amino acids
TYPE: AMINO ACID
                                                                                                                                                                                                                                                                                    Best Local Similarity 38.48
Matches 172; Conservative
                                                                                                                                                 TOPOLOGY: linear
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Human
                                                                                                                                                                                               US-07-763-352A-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 5
PCT-US01-06960-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 3131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCT-US01-06960-2
```

Db 523 GAAACTGGTTCTCTGCATTCTGAATGTT	RESULT 7 US-09-515-363B-2 US-09-515-363B-2 Sequence 2 Application US/09515363B Sequence 2 Application US/09515363B Sequence 2 Application US/09515363B Sequence 2 Application US/09515363B TITLE OF INVENTION: Melanoma Differential Associated Gene-5 (mda-5), Promoter and TITLE OF INVENTION: Thereof TITLE OF INVENTION: Thereof TITLE OF INVENTION: Thereof TITLE OF INVENTION: MUMBER: US/09/515,363B CURRENT APPLICATION NUMBER: US/09/515,363B CURRENT PELLING DATE: 2000-02-29 NUMBER OF SEQ ID NOS: 3 SOFTWARE: PatentIn version 3.0 SEQ ID NO 2 LENGTH: 3131 TENGTH: 3131 SPECIAL ORGANISM: Human US-09-515-363B-2	Query Match Best Local Similarity 24.7%; Pred. No. 6.68-12; Best Local Similarity 24.7%; Pred. No. 6.68-12; Best Local Similarity 24.7%; Pred. No. 6.68-12; Matches 119; Conservative 6; Mismatches 177; Indels 180; Gaps 19; QY 23 CPVGTETNTAGQVDDLGTPANCVN	
09 23 CPVGTETNTAGQVDDLGTPANCVN	331 ECLNCAAN	APPLICANT: Fisher, Paul TITLE OF INVENTION: Melanoma Differential Associated Gene-5 (mda-5), Promoter and use TITLE OF INVENTION: Thereof FILE REFERENCE: 0575/60849 CURRENT APPLICATION NUMBER: US/09/515,363 CURRENT APPLICATION NUMBER: US/09/515,363 CURRENT PILING DATE: 2000-02-29 NUMBER OF SEQ ID NOS: 3 SOFTWARE: Patentin version 3.0 SEQ ID NO 2 LEMCTH: 3131 TYPE: PRT CURRENT: Human US-09-515-363-2	Query Match 9.9%; Score 251; DB 19; Length 3131; Best Local Similarity 24.7%; Pred. No. 6.6e-12; Ace-12; Matches 119; Conservative 6; Mismatches 177; Indels 180; Gaps 19; QY 23 CPVGTETNTAGQVDDLGTPANCVN

S

```
õ
                                                                                                                                                       g
                                                                                                                                                                                                                                   g
                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21;
                                         369 GGTATLIAQCALECPAGIVLIDGIISIYKQAASECVKC--AANFXITKQIDWVAGIDICI 426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2888 ATACCATGTTTTATTTTTTTACATGTATTTTATTACTCCTTTCTCCAT----TGGA 2943
652 -CCTCAAG---TGGAAGAGCAACTTCTTTCAACCACAGTTCAGCCAAATCTGGAGAAGGA 707
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2849 ATCATATCTAAA-----GTTGTCCTC------ATTCCCCCATAGCTTTCT 2887
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2944 ATAGAATCTCCAT--TAGATTAGGAAATCTGCCTATCTTAT------TAATG 2987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  71 QKKDAGAQPNPPATANLVTQC-NVKCPAGTAIAGGATDYAAIITECVNCRINFYNENAPN 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         130 FNAGASTCTACPVNRVGGALTAGN-AATIVAQCNVACPTGTALDDGVTTDYVRSFTECVK 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         189 CRLNFYINGNNGNTPFNPGKSQCTPCPAIK--PANVAQATLGNDATITAQCNVACPDGTI 246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9; Mismatches 198; Indels 123; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21 ANCPVGTETNTAGQVDDLGTPANCVNCQKNFYYNNAAAFVPGASTC-----TPCP 70
                                                                             708 GGTCTGGGGCA-----TGGAGA--TAACTCATCAGAATCATCTTTGCAGATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9.7%; Score 245.5; DB 4; Length 3880; 25.8%; Pred. No. 2.6e-11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION NOMBER: US/08/028,021
FILING DATE: 08-MAR-1993
CLASSIFICATION: 435
ATTORNEY AGENT INFORMATION:
NAME: STRASSBURGER, PHILIP C.
REGISTRATION NUMBER: 94.558
REFERENCE/DOCKET NUMBER: PC8143
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                            APPLICANT: THOMPSON, JOHN F.

TITLE OF INVENTION: PROMOTER AND GENE FOR HUMAN
TITLE OF INVENTION: CHOLESTEROL
TITLE OF INVENTION: 7-A HYDROXYLASE
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: PETER C. RICHARDSON
STREET: 235 EAST 42ND STREET, 42ND STREET
CITY: NEW YORK
CITY: NEW YORK
COUNTRY: U.S.A.
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                     Sequence 1, Application US/08028021 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-028-021-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEX: N/A
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3880 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: (212) 573-5731
TELEFAX: (212) 573-1939
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 25.89
Matches 115; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acid
STRANDEDNESS: SI
                                                                                                                                                :|
TC 758
                                                                                                                      427 SC 428
                                                                                                                                                                  757
  a
                                           à
                                                                                  a
                                                                                                                         ð
                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ⋧
```

```
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                  74
                                                                                                                                                                                                                                                                                                                                                                                                                               329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                     22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       213 PCPAIKPANVAQATLGNDATITAQCNVACPDGTISAAGVNNWVAQNTECTNCAPNFYNNN 272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                322 -----ATNYVILQTECLNCAANFYFDGNNFQAGSSRCKACPANKVQGAVAT--AGGTA 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             365 GCTGTCAAATTATTGTAAGTCAAGGCTGGTGTTGAT------AGAITTTCTGTTA 414
                                                                                                                                                                                                                                                                                                                                                             159 AQCNVA-----CPTGTALDDGVTTDYVRSFTECVKCRLNFYYNGNNGNTPFNPGKSQCT 212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ---CAGGTGTCAATGATGATGGCCTGGAGGAATTAGTAAGTGCTCTCAACTGCGTAGGTG 364
                                                                                                                                                                                   63 -----ASTCTPCPQKKDAGAQPNPPATANLVTQCNVKCPAGTAIAGGATDYAAIITEC 115
                                                                                                                                                                                                                    142 TTTGTTACTCTTC-----CTTC TCTCCTCC--ACTTGTG------CTTC 174
                                                                                                                                                                                                                                                                         116 VNCRINFYNENAPNFNAGASTC-----TACPVNRVGGALTAGNA------ATIV 158
                                                                                                                                                                                                                                                                                                                   175 ATC------TGCATCGACAGGTACATTGTGGTTACTGATCCCCTGGTCTATGC 221
                                                                                                                                       90 CIGCIATITIGGAGCCAAAITITGIACICITC-----ACAGITGCIGIGAIGIGGCA 141
                                                     Gaps
                                                                                                 -- 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               273 APNFNPGNSTCLPCPANKDYGAEAT -- AGGAATLA -- -- - KQCNIACPD -- -- GTAIASG
                                                                                                                                                                                                                                                                                                                                                                                                          222 TACCAAGTTCACCGTGTCTGTGTCGGGAATTTGCATCA-----GCGTGTCCTGGATTCT
      Ouery Match
9.5%; Score 242.5; DB 21; Length 544;
Best Local Similarity 24.5%; Pred. No. 4e-12;
Matches 119; Conservative 11; Mismatches 183; Indels 173;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3: Marshall, O'Toole, Gerstein, Murray and Borun
233 South Wacker Drive/6300 Sears Tower
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: LILLON HOWARD M.
TITLE OF INVENTION: PLANT RETROVIRAL POLYNUCLEOTIDES AND TITLE OF INVENTION: METHODS OF USE THEREOF
TITLE OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray and Boru
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURREMY APPLICATION DATA:
APPLICATION NUMBER: PCT/US97/17746
                                                                                                 23 CPVGTETNTAG-----QVDDLGTPANCVNCQKNFYYNNAAAFVPG-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY AGENT INFORMATION:
NAME: Clough, David W.
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 27013/33214 I
TELECOMMUNICATION INFORMATION:
TELEPRING: (312) 474-6300
TELEPRING: (312) 474-6300
TELEPRING: (312) 474-6300
TELEPRING: (312) 474-6300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  707-US97-17746-50
; Sequence 50, Application PC/TUS9717746
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: 233 SOU
CITY: Chicago
STATE: Illinois
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      433 TSGAEA 438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                467 TAGCTA 472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                ŏ
                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
```

```
22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       132 AGASTCTA -- CPVNRVG---GALTAGNAA-----TIVAQCNVACPTGTALDDGVTTD 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  378 GGGGCCTATGCAAGTTGAAAGCCTTGGAAGAAAAAGGTATGCCTATGTTGTTGTGGAT-- 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        288 ANKDYGAEATAGGAATLAKQCNIACPDGTAIASGATNYVILQTECLNCAANFYFDGNNFQ 347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          407
                                                                                                                                                                                                                                                                                                                                             273 AAICTGTGGTGAATGTCAGATTGGAAAGCAAGTCAAGATGTCCAACCAGAAGCTTC--- 328
                                                                                                                                                                                                                                                                                                                                                                                                DAGAQPNPPATANLVTQCNVKCPAGTALAGGATDY -- AAIITECVNCRINFYNENAPNFN 131
                                                                                                                                                                                                                                                                                                                                                                                                                                  20 SANCP----VGTETNTAGQVDDLGTPANCV--NCQKNFYYNNAAAFVPGASTCTPCPQKK 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    179 YVRSFTECVKCRLNFYYNGNNGNTPFNPGKSQCTPCPAIKPANVAQATLGNDATITAQCN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        545 AGA--GAATCAGGAGTGA-----CCATGGCAGAGAGTTTGAAAACAGCAAG---TTTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    436 --GATTTCTCC-----AGATTTACCTGGGTCAACTT--TATCAGAGAAATCAGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      239 VACPDG-----TISAAGVNNWVAQNT-----ECTNC-APNFYNNNAPNFNPGNSTCLPCP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        485 CCTTTGAAGTATTCAAGGAGTTGAGTCTAAGACTTCAAAGAGAAAAAAGACTGTGTCATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       348 AGSSRCKACPANKVQGAVATAGGTATLIAQCALECPAGTVLTDGTTSTYKQAASECVKCA
                                                                                                                                                                                                                                                 93;
                                                                                                                                                                                                 Length 2826;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          and Borun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 50 Application US/09254776
GENERAL INFORMATION:
APPLICANT: Laten, Howard M.
TITLE OF INVENTION: PLANT RETROVIRAL POLYNUCLEOTIDES AND
TITLE OF INVENTION: METHODS OF USE THEREOF
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  E: Marshall, O'Toole, Gerstein, Murray
233 South Wacker Drive/6300 Sears Tower
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/254,776
                                                                                                                                                                                              Query Match
9.4%; Score 238.5; DB 1;
Best Local Similarity 26.6%; Pred. No. 7.2e-11;
Matches 119; Conservative 7; Mismatches 229;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 408 ANFYTTKQTDWVAGIDTCTSCNKKLTSG 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 637 GCCATT----ACACCACAAAATGG 659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
NAME: Clough, David W.
REGISTRATION NUMBER: 36,107
LENGTH: 2826 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET: 233 Sou
CITY: Chicago
STATE: Illinois
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE:
                                                                                                                               PCT-US97-17746-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-254-776-50
```

```
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-09-436-063-5
                Llarity 25.7%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 25.4%
Matches 115; Conservative
                Similarity
                                   123;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-436-063-5
              Best Local
Matches 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 5
                                                                                                                                                                                                                              137
                                                                                                                                                                                                                                                                                                                                                                                      252
                                                                                                                                                  11
                                                                                                                                                                                         545
                                                                                                                                                                                                                                                                                                                                               642
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             393
                                                                                                           a
                                                                                                                                                    à
                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                          δλ
                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                           22;
                                                                                                                                                                                                                                                                                                                                                                                        273 AATCTGTGGTGAATGTCAGATTGGAAAGCAAGTCAAGATGTCCAACCAGAAGCTTC---- 328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -----AACATCAGAC---CACTTCCAGGGTGCTGGAACTACTTCACATGGACTTGAT 377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGASTCTA--CPVNRVG---GALTAGNAA-----TIVAQCNVACPTGTALDDGVTTD 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        179 YVRSFTECVKCRLNFYYNGNNGNTPFNPGKSQCTPCPAIKPANVAQATLGNDAIITAQCN 238
                                                                                                                                                                                                                                                                                                                                                                                                                                  DAGAQPNPPATANLVTQCNVKCPAGTAIAGGATDY--AAIITECVNCRINFYNENAPNFN 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGGGCCTATGCAAGTTGAAAGCCTTGGAAGAAAAAGGTATGCCTATGTTGTTGTGGAT-- 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             --GATITCICC-----AGAITIACCIGGGICAACIT---TAICAGAGAGAAAICAGACA 484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    239 VACPDG-----TISAAGVNNWVAQNT----ECTNC-APNFYNNNAPNFNPGNSTCLPCP 287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCTTTGAAGTAITCAAGGAGTTGAGTCTAAGACTTCAAAGAGAAAAAAGACTGTGTCATCA 544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ANKDYGABATAGGAATLAKQCNIACPDGTAIASGATNYVILQTECLNCAANFYFDGNNFQ 347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           348 AGSSRCKACPANKVQGAVATAGGTATLIAQCALECPAGTVLTDGTTSTYKQAASECVKCA 407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                595 GAATICIGCACAICIGA---AGGCAI----CACICAIGA----GIICI------CIGCA 636
                                                                                                                                                                                                                                                                                                                                                   20 SANCP----VGTETNTAGQVDDLGTPANCV--NCQKNFYYNNAAAFVPGASTCTPCPQKK 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGA--GAATCAGGAGTGA-----CCATGGCAGAGAGTTTGAAAACAGCAAG---TTTACT
                                                                                                                                                                                                                                                                                                                           93;
                                                                                                                                                                                                                                                                                 DB 16; Length 2826;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: HUU, Daniel, K.
APPLICANT: HUU, Daniel, K.
APPLICANT: HUU, Fu-Tong
APPLICANT: LUU, Fu-Tong
APPLICANT: DOWLING, Christopher, A.
TITLE OF INVENTION: GALECTIN EXPRESSION IS INDUCED IN
TITLE OF INVENTION: GALECTIN EXPRESSION IS INDUCED IN
TITLE OF INVENTION: GALECTIN EXPRESSION IS INDUCED IN
TITLE OF INVENTION: GALECTIN OWNER: PCT.USOO.008561
CURRENT APPLICATION NUMBER: PCT.USOO.008561
CURRENT FILING DATE: 2000-03-29
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 47

BLENGTH: 914
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1; Length 914;
                                                                                                                                                                                                                                                                         Query Match
9.4%; Score 238.5; DB 16; Length
Best Local Similarity 26.6%; Pred. No. 7.2e-11;
Matches 119; Conservative 7; Mismatches 229; Indels
REFERENCE/DOCKET NUMBER: 27013/33214 US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9.4%; Score 237.5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       408 ANFYTTKQTDWVAGIDTCTSCNKKLTSG 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCCATT----ACACCACACAAAATGG 659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Sequence 47, Application PC/TUS0008561
; GENERAL INFORMATION:
                                   TELEPHONE: (312) 474-6300
TELEFAX: (312) 474-0448
INFORMATION FOR SEQ ID NO: 50.
SEQUENCE CHARACTERISTICS:
LENGTH: 2826 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
              TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 474-6300
                                                                                                                                                                                             ; MOLECULE TYPE: protein US-09-254-776-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; TYPE: PRT
; ORGANISM: human
PCT-USOO-08561-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 12
PCT-US00-08561-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         329
                                                                                                                                                                                                                                                                                                                                                                                                                                  74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                288
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      545
```

ò 유

g ò

ò d ò g õ a à ద ò g

```
19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18;
                                                                                                                                                                                                           AQPNPPATANLVTQCNVKCPAGTAIAGGATDYAAIITECVNCRINFYNENAPNFNAGAST 136
                                                                                                                                                                                                                                                                  AGCTGGATA-----ATAACTGGGGAAGGGAAGAACACAGTC------GGTT 585
                                                                                                                                            500 CACGCTTCAA----TGAGAACAAC-----AGGAGAGTCATTGTTTGCAATACAA 544
                                                                                                                                                                                                                                                                                                                                    CTACPVNRVGGAL-TAGNA----ATIVAQCNVACPTGTALDDGVTTDYVRSFTECVKCRL 191
                                                                                                                                                                                                                                                                                                                                                                                                  TTCCCATTTGAAAGTGGGAAACCATTCAAAATACAAGTACTGGTTGAACCTGACCA---- 641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        680 ACAATCATCGGGTTAAAAAACT-CAA-----TGAAATCAGCAAACTGGGAATTTC 728
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ---AGGAATLAKQCNIACPDG----TAIASGATNYVILQTECLNCAANFYFDGNNFQ 347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          729 TGGTGACATAGACCTCACCAGTGCTTCATATACCATGATATATCTGAAA-----GGGGC 783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGSSRCKACPANKVQGAVATAGGTATLIAQCALECPAG-----TVLTDGT---- 392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -------NNWVAQNTECTNCAPNFYNNNAPNFNPGNSTCLPCPANKDYGAEAT--- 297
                                                                                 CPVGTETNTAGQVDDLGTPANCVNCQKNFYYNNAAAFVPGASTC-----TPCPQKKDAG 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 5, Application US/09436063A
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL SEQUENCE:
TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
TITLE OF INVENTION: Methods Related Thereto
FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/09/436,063A
CURRENT FILING DATE: 1999-11-08
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PAtentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    682 AAATGAAA-AGAAATCATTCTTCCACTT---GGCAACCACATAAC-----T 725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -----TSTYKQAASECVKCA--ANFYTTKQTDWVAG-IDTCTSCNKKLTSGAEA 438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           622 CTCACTTACCGTCGGAGTAGACTACCTGGATAGACTGTGGAAACCCGACACGTTCTTCCC 681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      72 KKDAGAQPNPPATANLVTQCNVKCPAGTAIAGGATDYAAIITECVNCRINFYNENAPNFN 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          726 CGTTCCTTCGTATCGAG--GGTGATGGAACGGTTTATACTAGTCAAAGATTAACAGTCAC 783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            187 VKCRLNFYYNGNNGNTPFNPGKSQCTPCPAIKPANVAQATLGNDATIT-AQC----NVA 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -----STCTPCPQ 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                          192 NEYYNGNNGNTPFNPGKSQCTPCPAIKPANVAQATLGNDATITAQCNVACPDGTISAAGV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    784 AGATTAAAAAAAAAAAAAAAAGAATCTAAACCTTACATGTGAAAGGTTTCATGTTCACTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               132 AGASTCTACPVNRVGGALTAGNAATIVAQCN----VACPTGTALDDGVTTDYVRSFTEC
Pred. No. 2.1e-11;
9; Mismatches 208; Indels 139;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels 90;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 1917;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; Score 233; DB 18;
; Pred. No. 1.3e-10;
10; Mismatches 238;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23 CPVGTETNTAGQVDDLGTPANCVNCQKNFYYNNAAAFVPGA-
```

404 VKCAANFYTTKQTDWVAGIDTCTSCNKKLTSGA 436

δ

셤 ò 셤

```
18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241 CPDGTISAAGVNNWVAQNTECTNCAPNFYNNNAPNFNPGNSTCLPCPANKDYGAEATAGG 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    881 TACGTGTGGCACGAGAAGAAGTCCGTG----TCCACCGAGTCTTATG--AGTTGCCGCA 933
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               358 ANKVQGAVAT-----AGGT-ATLIAQCALEC---PAGTVLTDGTTSTYKQAASEC 403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AATLAKQCNIACPDGTALASG---ATNYVILQTECLNCAANFYFDGNNFQAGSSRCKACP 357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                132 AGASTCTACPVNRVGGALTAGNAATIVAQCN----VACPTGTALDDGVTTDYVRSFTEC 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       726 CGTTCCTTCGTATCGAG--GGTGATGGAACGGTTTATACTAGTCAAAGATTAACAGTCAC 783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              784 IGCAA----CGIGICCAAIGGACCIGAAGCIGIICCCAAIGGACICICAACACAGIGIAAA 838
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           72 KKDAGAQPNPPATANLVTQCNVKCPAGTAIAGGATDYAAIITECVNCRINFYNENAPNFN 131
                                                                                                     880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 5, Application US/09436063C

Sequence 5, Application US/09436063C

GENERAL INFORMATION:
APPLICANT: Bamber, Bruce
APPLICANT: JOTGGESEN, Erik
TITLE OF INVENTION: Methods Related Thereto
TITLE OF INVENTION: Methods Related Thereto
TITLE OF INVENTION: Methods Related Thereto
FILE REFERENCE: P-1095corrected
CURRENT APPLICATION NUMBER: US/99/436,063C
CURRENT FILING DATE: 1999-11-08
PRIOR APPLICATION NUMBER: 60/107727
SPRIOR APPLICATION NUMBER: 60/107727
SPRIOR FILING DATE: 1999-11-09
NUMBER OF EGO ID NOS: 18
SOFTWARE: Patentin Ver. 2.1

SSEQ ID NO 5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 622 CICACTIACCGICGGAGIAGACIACCIGGAIAGACIGIGGAAACCCGACACGIICTICCC 681
                                                                                                                                                                                     881 TACGIGICGCACGAGAAGAAGICCGIG-----TCCACCGAGICITAIG--AGIIGCCGCA 933
                                                                                                                                                                                                                                 358 ANKVQGAVAT------AGGT-ATLIAQCALEC---PAGTVLTDGTTSTYKQAASEC 403
                                                                                                                                                                                                                                                               Gaps
                                                                                                                                            301 AATLAKQCNIACPDGTAIASG---AINYVILQTECLNCAANFYFDGNNFQAGSSRCKACP 357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23 CPVGTETNTAGQVDDLGTPANCVNCQKNFYYNNAAAFVPGA------STCTPCPQ 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     187 VKCRLNFYYNGNNGNTPFNPGKSQCTPCPAIKPANVAQATLGNDATIT-AQC----NVA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 CPDGTISAAGVNNWVAQNTECTNCAPNFYNNNAPNFNPGNSTCLPCPANKDYGAEATAGG
                                                                                                  -----GTATCCTCGA-----CATTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              90;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 1917;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      682 AAATGAAA-AGAAATCATTCTTCCACTT---GGCAACCACACATAAC----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 9.2%; Score 233; DB 18; Best Local Similarity 25.4%; Pred. No. 1.3e-10; Matches 115; Conservative 10; Mismatches 238;
                                                                                                                                                                                                                                                                                                                                                                    994 TICCCGCCT --- TIGCTGGTTCTTCCTATICAA 1023
                                                                                                                                                                                                                                                                                                                           404 VKCAANFYTTKQTDWVAGIDTCTSCNKKLTSGA 436
                                                                                                       839 CTGGAAATTGAAAGCTACGGCTACA---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; ORGANISM: Caenorhabditis elegans US-09-436-063C-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1917
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Qγ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Qγ
                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                     Ω
                                                                                                                                                                                              Db
                                                                                                                                                                                                                                            ò
```

```
18;
                                                                                                                              APPLICANT: Bamber, Bruce
APPLICANT: Jorgensen, Erik
TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
TITLE OF INVENTION: Methods Related Thereto
FILE REFERENCE: P-1095corrected
CURRENT APPLICATION NUMBER: US/09/627,650
CURRENT FILING DATE: 2000-07-28
PRIOR APPLICATION NUMBER: 60/107727
PRIOR APPLICATION NUMBER: 60/107727
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 CPDGTISAAGVNNWVAQNTECTNCAPNFYNNNAPNFNPGNSTCLPCPANKDYGAEATAGG 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        839 CTGGAAATTGAAAGCTACGCCTACA------GTATCCTCGA-----CATTATG 880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     881 TACGTGTCGCACGAGAAGAAGTCCGTG-----TCCACCGAGTCTTATG--AGTTGCCGCA 933
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          358 ANKVQGAVAT------AGGT-ATLIAQCALEC---PAGTVLIDGTTSTYKQAASEC 403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGASTCTACPVNRVGGALTAGNAATIVAQCN-----VACPTGTALDDGVTTDYVRSFTEC 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             726 CGTTCCTTCGTATCGAG--GGTGATGGAACGGTTTATACTAGTCAAAGATTAACAGTCAC 783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301 AATLAKQCNIACPDGTAIASG---AINYVILQTECLNCAANFYFDGNNFQAGSSRCKACP 357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         72 KKDAGAQPNPPATANLVTQCNVKCPAGTAIAGGATDYAAIITECVNCRINFYNENAPNFN 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -----STCTPCPO 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CICACITACCGICGGAGIAGACIACCIGGAIAGACIGIGGAAACCCGACACGTICIICCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAATGAAA-AGAAATCATTCCACTT---GGCAACCACACATAAC-----T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         187 VKCRLNFYYNGNNGNTPFNPGKSQCTPCPAIKPANVAQATLGNDATIT-AQC----NVA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                90;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 1917;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23 CPVGTETNTAGQVDDLGTPANCVNCQKNFYYNNAAAFVPGA--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9.2%; Score 233; DB 20;
25.4%; Pred. No. 1.3e-10;
tive 10; Mismatches 238;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    104 VKCAANFYTTKQTDWVAGIDTCTSCNKKLTSGA 436
994 TICCCGCCI --- TIGCTGGTTCTTCCTATICAA 1023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Search completed: December 26, 2001, 10:38:06 Job time: 187 sec
                                                                                               ; Sequence 5, Application US/09627650; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                   ; ORGANISM: Caenorhabditis elegans US-09-627-650-5
                                                                                                                                                                                                                                                                                                                                        Patentin Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity 25.4 Matches 115; Conservative
                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS:
SOFTWARE: Patentin Ve
                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 1917
                                                                                    US-09-627-650-5
                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 5
                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 682
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δý
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Qγ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Db
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Qγ
      g
```